

SANYO	No. 3203	2SD2116
		NPN Epitaxial Planar Silicon Transistor General Driver Applications

Features

- Darlington connection
- High DC current gain
- Large current capacity, wide ASO

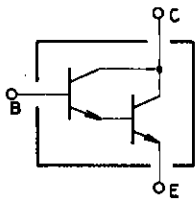
Absolute Maximum Ratings at Ta = 25°C

			unit
Collector to Base Voltage	V_{CBO}	80	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	10	V
Collector Current	I_C	0.7	A
Collector Current(Pulse)	I_{CP}	2	A
Collector Dissipation	P_C	1	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

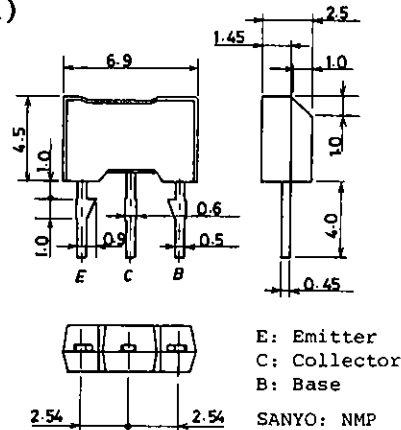
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 40V, I_E = 0$			100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 8V, I_C = 0$			100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 2V, I_C = 50mA$	5000			
	$h_{FE(2)}$	$V_{CE} = 2V, I_C = 500mA$	4000			
Gain-Bandwidth Product	f_T	$V_{CE} = 5V, I_C = 50mA$		200		MHz
Output Capacitance	c_{ob}	$V_{CB} = 10V, f = 1MHz$		9		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 0.1mA$		0.8	1.2	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = 100mA, I_B = 0.1mA$		1.4	2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	80			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA, R_{BE} = \infty$	50			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	10			V

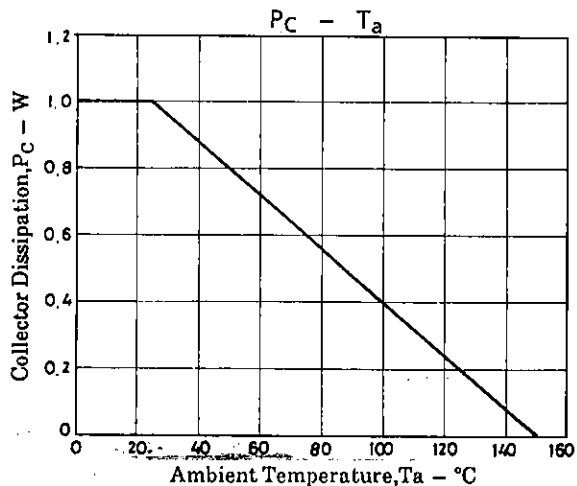
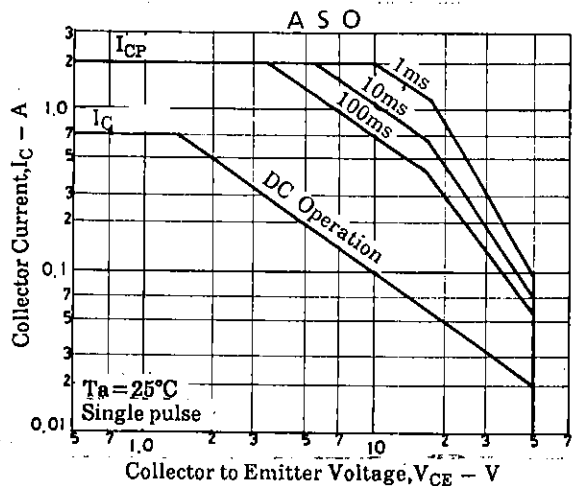
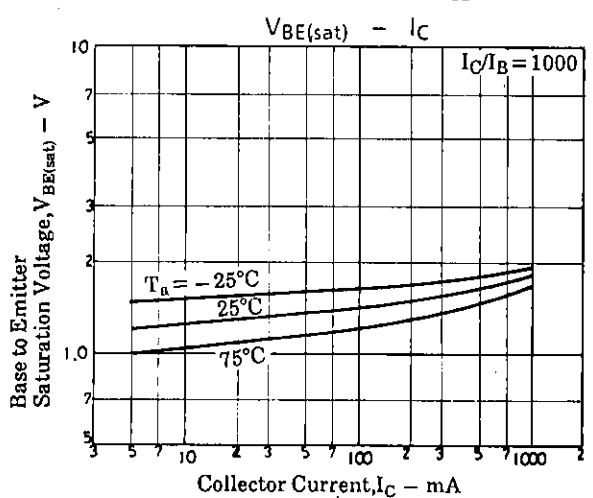
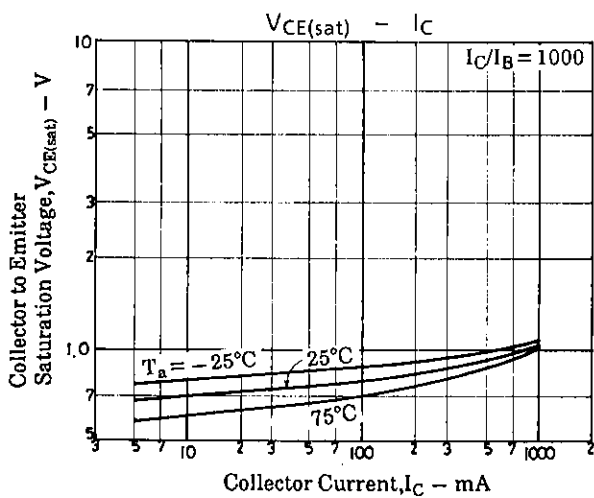
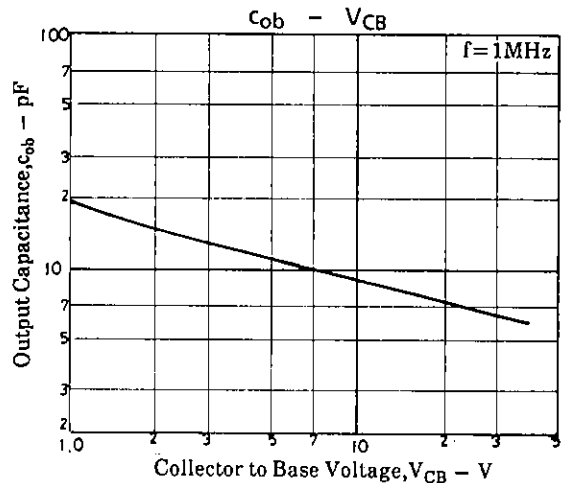
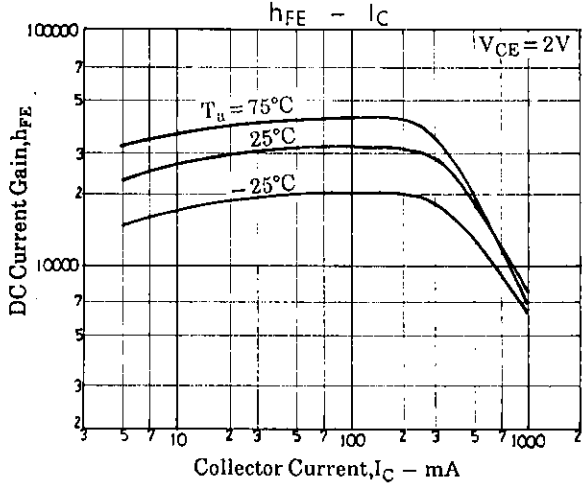
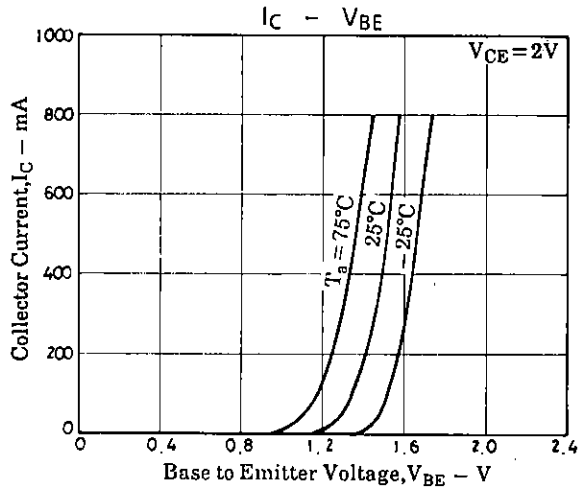
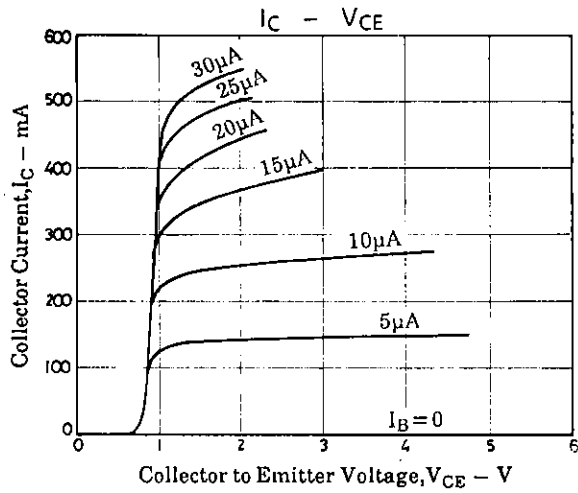
Electrical Connection



Package Dimensions 2064

(unit: mm)





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